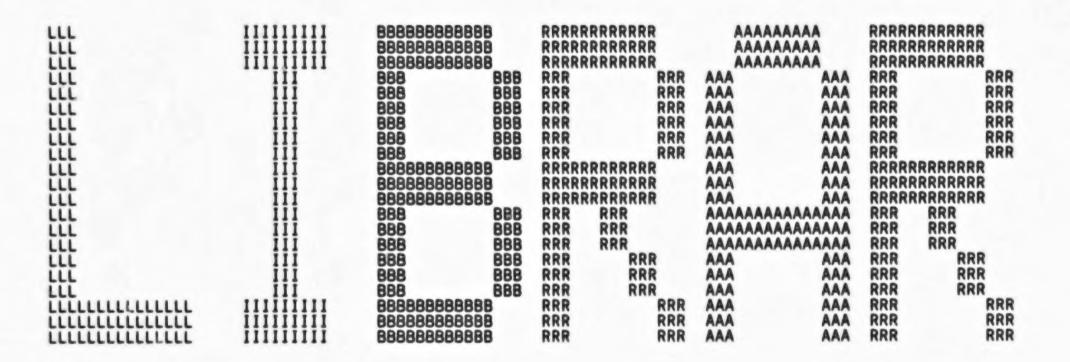
_\$2

Val



FILEID**LIB

LIB

LIB VO4

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

MODIFIED BY:

MCN0145		Maria del C. Nasr			sr	08-Feb-1984	
Add DATA	bit	to	indicate	/DATA	qualifier	was	specified.

V03-001 JWT0056 Jim Teague 20-Sep-1982 Add structures for implementation of DCX data reduction and expansion.

v02-006	RPG0046 Turn on Update History	Bob Grosso	25-Aug-1981
v02-005	Support /BEFORE and /SIM	Bob Grosso	7-Aug-1981
v02-004	RPG0044 Add KEEP flag.	Bob Grosso	30-Jul-1981
v02-003	RPG0041 Add Lhe\$w_modcnt	Bob Grosso	8-May-1981
v02-002	RPG0033 Add lib\$s_history, lib\$s lib\$c_cre_opt. Add stru	Bob Grosso s_recordluh, ucture LHE.	20-Apr-1981 lib\$c_defluhrec, and

Add shareable image symbol table library

Benn Schreiber

23-Dec-1980

SSTRUCT LIB

BLS0029

V02-001

C

V

```
CLIBIT ..
                                  :Spare bit--used by CLI
:Object library
:Macro library
:Help text library
:TEXT library
OBJECT
MACRO
HELP
TEXT
SHRSTB
                                   :Shareable image symbol table library :Compress function
COMPRESS
CREATE
                                   :Create
DELETE
                                   :Delete
EXTRACT
                                   :Extract
INSERT
                                   :Insert
LIST
                                   :List
REMOVE
                                   :Remove
REPLACE
                                   :Replace
OUTPUT
                                   :Output
NAMES
                                   : Names
FULL
                                   :Full listing
GLOBALS
                                   :Globals
SELECTIVE
                                   :Selective search
                                   Squeeze macro defs.
Library file is open
Output file is open
SQUEEZE
LIBOPEN
OUTOPEN
                                   Log operations on terminal Library is old (VMS R1) format
LOG
OLDLIB
                                   :Issue covrting message in compress_lib
:List module RFA also
CONVERT
ADDRESS
                                   :List only selected modules
ONLY
MODULE
CROSS
                                   :Cross reference of object library
                                   :List the history
:Opened library maintains a history
:Keep user info and history across compress
HISTORY
RECORDLUH
KEEP
                                   ;List entity predating
;List entity postdating
;Reduce library with DCX
;Data qualifier found
BEFORE
SINCE
DCX
DATA
<M>
                                  Spare bit--used by CLI
Object library
Macro library
Help text library
TEXT library
CLIBIT
OBJECT
MACRO
HELP
TEXT
SHRSTB
                                   :Shareable image symbol table library
                                   : Compress function
COMPRESS
CREATE
                                   :Create
                                   :Delete
DELETE
EXTRACT
                                   :Extract
                                   :Insert
INSERT
LIST
                                   :List
REMOVE
                                   :Remove
REPLACE
                                   :Replace
OUTPUT
                                   :Output
NAMES
                                   ; Names
                                   : Full listing
FULL
```

C

C

```
GLOBALS
SELECTIVE
SQUEEZE
                                                         :Globals
:Selective search
                                                         :Squeeze macro defs.
                                                        ;Library is open
;Output file is open
;Log operations on terminal
;Old format library
;Issue covrting message in compress_lib
;List module RFA also
  LIBOPEN
 OUTOPEN
 LOG
 OLDLIB
  CONVERT
  ADDRESS
 ONLY
                                                         :List only selected modules
  MODULE
 CROSS
                                                         :Cross reference of object library
                                                        ;List the history
;Opened library maintains a history
;Keep user info and history across compress
;List entity predating
;List entity postdating
;Reduce library with DCX
;Data qualifier found
 HISTORY
  RECORDLUH
 KEEP
 BEFORE
 SINCE
 DCX
 DATA
 <LIB.$S
CRFBYSYM;</pre>
                                                                           ;Cross reference by symbol
 CRFBYVAL,
                                                                           :Cross reference by value
 CRFBYMOD
                                                                           :Cross reference by module
 CRFBYSYM
 CRFBYVAL
 CRFBYMOD
                                                       :Number of blocks to allocate by default
:Number of global symbols to allocate by default
:Number of modules to allocate by default
:Default maximum number of LUH records to save
:Default library version type to create
:Length of listing file record
:Length of symbols in Help libraries
:LIBRARIAN subsystem number (134)
:BLOCKS= option index number
:GLOBALS= option index number
:MODULES= option index number
:KEYSIZE= option index number
:HISTORY= option index number
DEFBLKS,100
DEFGBLS,512
DEFMODS,128
DEFLUHREC,20
DEFVERTYP,3
LISRECLNG,132
SHORTSYM,15
SUBSYS,<134*65536>
OPT BLKS,0
OPT_BLKS,0
OPT_GBLS,1
OPT_MODS,2
OPT_KSZ,3
OPT_LUHS,4
OPT_VER,5
OPT_KEEP,6
OPT_DCX,7
                                                         :HISTORY= option index number
                                                         :VERSION= option index number
                                                         :KEEP option index number :REDUCE option index number
 <M
OPT_BLKS
OPT_GBLS
OPT_MODS
                                                         :BLOCKS= option index number :GLOBALS= option index number
                                                         :MODULES= option index number
:KEYSIZE= option index number
 OPT_KSZ
 OPT_LUHS
OPT_VER
                                                         :HISTORY= option index number
                                                         :VERSION= option index number
 OPT_KEEP
                                                         :KEEP option index number
```

L IE

```
LIB
```

```
OPT_DCX
                                          :REDUCE option index number
E
SSTRUCT FDB
          NXTFDB,L
FILFLGS,B
                                          :Link to next FDB or 0 if end of list :Flags for this file
           <M
          SETSEL
                                          :Set selective search for this file
          IFI.W
DEFEXT.L
                                          :Spare byte
:IFI of file
                                          :String descriptor for default extension
           .L.1
                                          String descriptor for file
          NAMDESC, L
           .L.1
          MODNAM, L
                                          :String descriptor for /MODULE name
                                          :Spares
                                          :NAM block and resultant string follow
:*NOTE* must be longword aligned
:Start of NAM block
          NAM,T,O
SIZE
                                          ;Size of local part of FDB
SSTRUCT LNB
          FLINK, L
                                          ;Link word forward
          BLINK, L
                                          :Link backwards
          FLAGS, B
                                          :Flags
          REPLACE
                                          :Replace rather than insert symbol
          NAMLNG, B
                                          ;Length of name
          NAME, T.O
FIXEDSIZE
                                          ;Start of name
                                          :Length of fixed part of library name block
SSTRUCT MNB
          NEXT,L
SYMBOLS,L
                                          :Link to next module name block
                                          :Link to symbol list :Length of module name
          NAMLNG, B
NAME, T.O
FIXEDSIZE
                                          :Start of name
:Length of fixed part of module name block
$STRUCT SNB
          NEXT,L
VALUE,L
FLAGS,W
                                          :Link to next symbol name block
                                          :Value of symbol
:Symbol flags
          NAMLNG, B
NAME, T. O
FIXEDSIZE
                                          :Length of symbol name
:Start of name
                                          :Length of fixed part of symbol name block
```

LIB.MDL:1

16-SEP-1984 16:38:34.92 Page 4

```
E

SSTRUCT LHE

F TIME,L
,L,1
F MODCONT,W
F MODCODE,B
C DELETED,1
INSERTED,2
REPLACED,3
F USRNAMLEN,B
USRNAM,T,12
F IXEDSIZE

E

16-SEP-1984 16:38:34.92
Page 5

Time of modification
;count of module names
;code for the modification
; tength of the username
;username
; username
```

LIB VO4 0200 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

